

WHAT IS CLAIMED IS:

1. A horizontal metal cutting band saw (1) for mitering elongated workpieces, with a machine frame (2) that contains a support device (11, 12) for the workpiece (16) to be processed, with a main carrier (3), with a swivel support (21) arranged on the main carrier (3) above the support device (11, 12) and that defines a vertical swivel axis (25) that extends through the support device (11, 12), with an intermediate carrier (4) that is connected to the main carrier (3) by means of the swivel support (21) and can be swiveled about the vertical axis (25) with the aid of the swivel support (21), and with a saw frame (5), in which a bandsaw blade (34) runs in a guided fashion, with said saw frame being movably supported on the intermediate carrier (4) in such a way that it can be displaced or swiveled in a plane that extends parallel to the swivel axis (25).

2. A horizontal metal cutting band saw (1) for mitering elongated workpieces, with a machine frame (2) that contains a support device (11, 12) for the workpiece (16) to be processed, with a main carrier (3), with an intermediate carrier (4) that is movably supported on the main carrier (3) in such a way that it can be vertically displaced in the direction of the support device (11, 12), with a swivel support (21), which is arranged on the intermediate carrier (4) above the support device (11, 12) and defines a vertical swivel axis (25) that extends through the support device (11, 12), and with a saw frame (5), in which a bandsaw blade (34) runs in a guided fashion, where said saw frame is connected to the intermediate carrier (4) by means of the swivel support (21) and can be swiveled about the vertical axis (25) with the aid of the swivel support (21).

3. The metal cutting band saw according to Claim 1 or 2, characterized by the fact that the main carrier (3) is located lateral to the support device (11, 12).

4. The metal cutting band saw according to Claim 1 or 2, characterized by the fact that the machine frame (2) has the form of a gantry and comprises at least two lateral uprights (17, 18) and a crossbeam (19) that connects the uprights (17, 18) to one another, where the swivel support (21) is mounted on the crossbeam.

5. The metal cutting band saw according to Claim 4, characterized by the fact that the two uprights (17, 18) are separated by such a distance that the saw frame (5) is able to pass between the uprights.

6. The metal cutting band saw according to Claim 1 or 2, characterized by the fact that the main carrier (3) has a gallows like shape with a lateral upright (17) that is located

adjacent to the support device (11, 12) and a projecting beam (41) mounted on said upright, where the swivel support (21) is arranged on the projecting beam.

7. The metal cutting band saw according to Claim 6, characterized by the fact that the upright (17) is offset relative to the vertical swivel axis (25), i.e., parallel to the longitudinal direction of the machine frame (2), in such a way that the intermediate carrier (4) can be moved into opposing miter positions.

8. The metal cutting band saw according to Claim 4 or 6, characterized by the fact that the upright(s) (17, 18) is/are connected to the machine frame (2).

9. The metal cutting band saw according to Claim 1 or 2, characterized by the fact that the intermediate carrier (4) has the form of an L, one arm (45) of which is connected to the swivel support (21), and by the fact that the other arm (46) is connected to the saw frame (5), with the saw frame (5) being movable relative to this arm (46).

10. The metal cutting band saw according to Claim 1, characterized by the fact that the intermediate carrier (4) contains a horizontal swivel support (47) that connects the saw frame (5) to the intermediate carrier (4) in such a way that the saw frame (4) can be swiveled about a horizontal axis.

11. The metal cutting band saw according to Claim 1 or 2, characterized by the fact that the intermediate carrier (4) comprises two vertical arms (27, 28) that are connected to one another by means of a crossbeam (26), and by the fact that the saw frame (5) is guided in a height adjustable fashion on the intermediate carrier (4) by means of a parallel guide.

12. The metal cutting band saw according to Claim 11, characterized by the fact that a linear guide (31) is provided on each of the two arms (27, 28), with said linear guides connecting the saw frame (5) to the intermediate carrier (4) in such a way that the saw frame can be adjusted in the direction of the workpiece (16) along a linear axis.

13. The metal cutting band saw according to Claim 1 or 2, characterized by the fact that the support device (11, 12) comprises a support table, the table top (12) of which is detachably connected to the machine frame (2).

14. The metal cutting band saw according to Claim 13, characterized by the fact that the table top (12) is realized in the form of a replaceable part.

15. The metal cutting band saw according to Claim 1 or 2, characterized by the fact that the support device (11, 12) comprises rollers (11), the outer circumferential surfaces of which contact a plane that also includes the table top (12).

16. The metal cutting band saw according to Claim 1 or 2, characterized by the fact that the support device (11, 12) comprises a vise (14) with respectively stationary and adjustable jaws (13, 15).

17. The metal cutting band saw according to Claim 16, characterized by the fact that the stationary jaw (13) defines a contact surface, where said contact surface defines the contact plane that includes the vertical swivel axis (21).

18. The metal cutting band saw according to Claim 1 or 2, characterized by the fact that driving devices (24, 38) are assigned to the swivel support.

19. The metal cutting band saw according to Claim 1 or 2, characterized by the fact that the saw frame (5) contains two rollers (33) that are supported axially parallel to one another and around which runs the bandsaw blade (34), and by the fact that the bandsaw blade (34) runs with reference to a plane that lies parallel to the axis of the rollers (33) in a region between the rollers (33). [insert claims]